PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE SIDEWALK RAMPS, INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTON SIGNS AT THE INTERSECTION OF MD 528 (COASTAL HWY) AND 52ND STREET. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE. THE MD 528 NORTHBOUND AND SOUTHBOUND LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING. ALTERNATE PEDESTRIAN PHASES ARE PROVIDED FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH TELEMETRY CABLE HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN, A 2-WIRE APS CENTRAL CONTROL UNIT WILL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

SPECIAL NOTE

APS WILL FUNCTION AS FOLLOWS:

TO CROSS COASTAL HWY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS COASTAL AT 52ND, WAIT"
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

MR. GREG HOLSEY MR. KENNETH CIMINO ASSISTANT DISTRICT ENGINEER—TRAFFIC ASSISTANT DISTRICT ENGINEER — CONST. PHONE: (410) 677—4040 PHONE: (410) 677-4040

MR. BRUCE POOLE DISTRICT UTILITY ENGINEER

PHONE: (410) 677-4082

MR. JAMES WRIGHT ASSISTANT DISTRICT ENGINEER - MAINT. PHONE: (410) 677-4010

MR. JOHN GOVER

OFFICE OF HIGHWAY DESIGN

PHONE: (410) 545-8766

MR. TERRY MCGEAN TOWN OF OCEAN CITY - CITY ENGINEER PHONE: (410) 289-8845

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410)787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS (410)787-7630

MR. EUGENE BAILEY MR. ED RODENHIZER CHIEF, SIGN OPERATIONS CHIEF, SIGNAL OPERATIONS (410)787-7676 (410)787-7650

EQUIPMENT LIST "A,B & C"

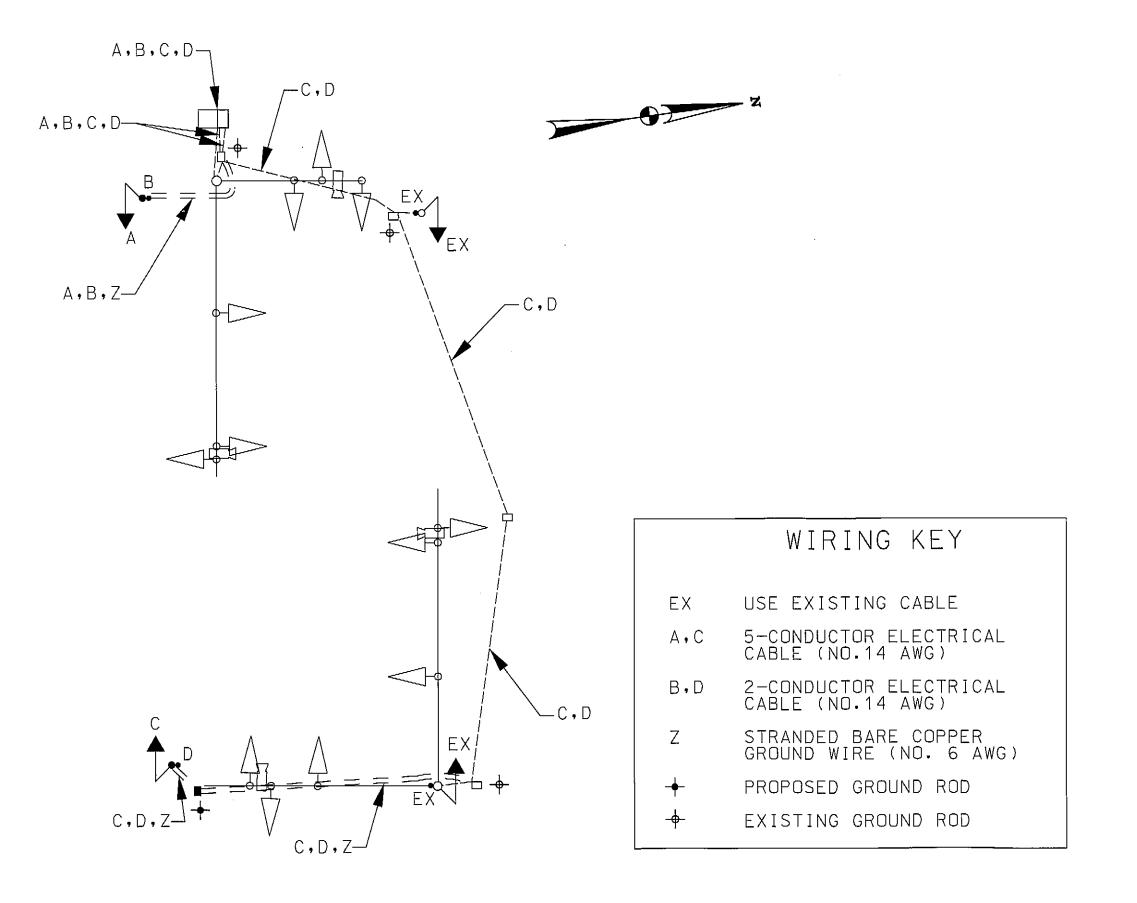
A. EQUIPMENT TO BE SUPPLIED BY THE SHA

DESCRIPTION

ITEM NO.

9571	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN 4 - R10-3(1) - 9"X15"	SF	4
В. Е	EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1002	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH	LF	1620
5005	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	LF	1400
8001	FURNISH AND INSTALL AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EΑ	4
8002	FURNISH AND INSTALL BREAKWAY PEDESTAL POLE — ANY SIZE	EΑ	2
8003	FURNISH AND INSTALL LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	EΑ	4
8004	REMOVE AND DISPOSE PER ASSIGNMENT	EΑ	1
8006	FURNISH & INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT — SLOTTED OR BORED	LF	65
8007	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT — TRENCHED	<u>L</u> .F	50
8009	ADJUST EXISTING HANDHOLE	EΑ	1
8010	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	130
8012	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EΑ	1
8013	INSTALL GROUND MOUNTED SIGN	SF	4
8016	GROUND ROD —3/4INCH DIAMETER X 10 FOOT LENGTH	EΑ	1
8018	ELECTRICAL CABLE — 2 CONDUCTOR (NO. 14 AWG)	LF	325
8019	ELECTRICAL CABLE — 5 CONDUCTOR (NO. 14 AWG)	LF	350

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



PHASING CHART

NO PHASE CHANGE

GENERAL NOTES

UNIT QUANTITY

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE,
- 2. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- 3. LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET THE LOCATION REQUIREMENTS OF THE MUTCD, SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- 4. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM 60"X60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN 2%.
- 5. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- 6. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- 7. ADA REQUIRES THAT ANY ABRUPT CHANGE IN ELEVATION IN SIDEWALK BE LESS THAN 1/4".
- 8. ALL PROPOSED FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE.
- 9. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
- 10. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- 11. THE CONTRACTOR SHALL ENSURE ALL UNDERGROUND UTILITIES ARE MARKED PRIOR TO TRAFFIC SIGNAL STAKEOUT. THE CONTRACTOR SHALL ENSURE ALL UNDERGROUND UTILITIES ARE MARKED AND STAKEOUT HAS OCCURED PRIOR TO TRAFFIC SIGNAL TURN OFF.



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (COASTAL HWY) AT 52ND STREET

OCEAN CITY, MARYLAND

GENERAL INFORMATION SHEET REVISIONS SCALE NONE DATE JUNE 2012 CONTRACT NO. XXI285133 COUNTY WORCESTER DESIGNED BY 23052805.28 LOGMILE ____ DRAWN BY CHECKED BY TOD NO. SHEET NO. 24 OF 26 DRAWING SP-2 OF 2 TS NO. 949E-GI

RKSK Rummel, Klepper & Kahl, LLP 81 MOSHER STREET | BALTIMORE, MD 21217 Engineers Construction Managers Planners Scientists

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